

SIMD/MIMD PROCESSING ON A RECONFIGURABLE ARRAY

ABSTRACT OF THE INVENTION

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A system and method for programming an $M \times N$ array of cells. Each cell is reconfigurable to execute a function according to a context instruction. The context instruction defines an operation of the array. An enable register includes a row enable register and a column enable register, corresponding to the M rows and N columns. Each cell is individually and independently enabled for receiving a next context instruction, according to an enable signal provided by the enable register. Non-enabled cells execute a present context. Enabled cells receive and execute an updated context. In this way, the array of cells can be configured to execute any number of independent functions for the operation.

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